

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT		ATT	ORNEY DOCKET NO.
08/420,5	04/12	2/95 QUINN		M	4544-011-25
				NASSER,	₹
<del>-</del>	- 33M1/0904 —			EXAMINER	
OBLON SPIVAK MCCLELLAND MAIER					
AND NEUSTADT				ART UNIT	PAPER NUMBER
1755 JEFFERSON DAVIS HIGHWAY FOURTH FLOOR				3311	
ARLINGT	ON VA 2220	2	1	DATE MAILED:	09/04/96

Please find below a communication from the EXAMINER in charge of this application.

**Commissioner of Patents** 

	Application No. Applicant(s)					
	402503 Quanetal					
Office Action Summary	Examiner Group Art Unit					
	Nasser 3311					
Responsive to communication(s) filed on 5/15/96						
This action is FINAL.						
☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
A shortened statutory period for response to this action is is longer, from the mailing date of this communication. Fa application to become abandoned. (35 U.S.C. § 133). Ex 37 CFR 1.136(a).	set to expire month(s), or thirty days, whichever allure to respond within the period for response will cause the stensions of time may be obtained under the provisions of					
Disposition of Claims						
A Claim(s) 45-63	is/are pending in the application.					
Of the above, claim(s)	is/are withdrawn from consideration.					
Claim(s) $\frac{46-52}{45,53-63}$ is/are allowed is/are rejected						
Claim(s) 45,53-43   is/are rejected						
☐ Claim(s) is/are objected to.						
☐ Claims	are subject to restriction or election requirement.					
Application Papers						
☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.						
The drawing(s) filed on is/are objected to by the Examiner.						
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.						
<ul><li>☐ The specification is objected to by the Examiner.</li><li>☐ The oath or declaration is objected to by the Examiner.</li></ul>						
	er.					
Priority under 35 U.S.C. § 119	ority under 25 U.S.C. 5 110(a) /d)					
<ul> <li>Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).</li> <li>□ All □ Some* □ None of the CERTIFIED copies of the priority documents have been</li> </ul>						
received.						
received in Application No. (Series Code/Serial Number)						
received in this national stage application from the International Bureau (PCT Rule 17.2(a)).						
*Certified copies not received:						
☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
Attachment(s)						
□ Notice of References Cited, PTO-892						
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).						
☐ Interview Summary, PTO-413						
<ul> <li>□ Notice of Draftsperson's Patent Drawing Review, PTO-948</li> <li>□ Notice of Informal Patent Application, PTO-152</li> </ul>						
SEE OFFICE ACTION	ON THE FOLLOWING PAGES					

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The examiner acknowledges applicant's request under 37 C.F.R. § 1.607 to provoke an interference with U.S. patent number 5,435,308 to Gallup et al. However, all of the independent claims of the patent recite a pressure port located between the heating element and the distal end of the catheter. Applicant cannot make this claim. Applicant has now amended the claim to recite a port. However, no location of the port has been recited. The examiner notes that during prosecution of the Gallup et al patent, claims 1-6 were rejected over Moran (4,776,340) in view of Khalil (4,217,910), while claim 7, which was the location of the pressure port between the distal end of the catheter and the heating element, was indicated to defined over the art. The examiner further notes that Moran, the base reference, had a port. Therefore, the location of the port was the patentable feature. Accordingly, it is the examiner's conclusion that the claims of the Gallup et al patent, which define the location of the port, are patentably distinct, as defined by 37 C.F.R. § 1.601, from the present claims. Accordingly, the interference has not been set up by the examiner.

The drawings are objected to under 37 C.F.R. § 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the fiber optic filaments inside the lumen and the fiber optic coupler associated with the catheter

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must be shown or the feature cancelled from the claim. No new matter should be entered.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 C.F.R. § 1.75(d)(1) and M.P.E.P. § 608.01(l). Correction of the following is required: Applicant does not have corresponding terminology in the specification to the fiber optic coupler and the filaments, as required by the rule.

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. § 112, first paragraph, as the specification, as originally filed, fails to provide support for the invention, as is now claimed. Claims 62 and 63 recite that the lumen dedicated to measuring distal catheter pressure includes surfaces defining a port and that the port is for measuring distal catheter pressure. Applicant points to page 16, lines 35-37 and page 24, line 32, as providing support for these features. However, upon review of this sections of the disclosure, no mention of a port in connection to the pressure measuring lumen for measuring distal catheter

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pressure is made. Accordingly, claims 62 and 63 introduce new matter. Clarification is required.

The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to provide an enabling description of the claimed invention. Claims 45, and 57-60 recite a port to enable injection of a fluid into the bloodstream. While there is basis for the injectate port, it is unclear from the specification what the purpose of injecting fluid is, as the principle of operation of the device is to add heat, not a cold bolus, for measuring cardiac output. Applicant should clarify the purpose of the fluid injection. Clarification is required.

Claims 45, 53-63 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102

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of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 45, 53, 54, 56-58, and 61-63 are rejected under 35
U.S.C. § 103 as being unpatentable over Willis et al in view of
Khalil '910. Willis et al shows all of the features of the
claims except that it measures cardiac output using a cold bolus
injection. Khalil teaches that cold bolus injections and using
external heaters heat the blood are equivalent methods of
measuring cardiac output (see background section). Accordingly,
it would have been obvious to modify Willis et al to use a
heating coil, rather than a cold bolus injection, as it is merely
the substitution of one known equivalent measurement technique
for another. Claim 54 is rejected in that the exact distance
between the end of the catheter and the heater varies with
catheter size and would have been obvious to one skilled int he
art. Claims 56-58 and 61-63 are rejected in that the
combination shows all of the features of the claims.

Claim 55 is rejected under 35 U.S.C. § 103 as being unpatentable over Willis et al in view of Khalil as applied to claims 45, 53, 54, 56-58, and 61-63 above, and further in view of Grise. Grise teaches that a substrate based heater is an improvement over a single wire of Khalil, in that the cost is much less and the heaters are more flexible in use.

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Accordingly, it would have been obvious to modify the above combination to use the substrate based heater of Grise, for the reasons given above.

Claims 46-52 are allowable.

Claims 59 and 60 would be allowable if rewritten or amended to overcome the rejection under 35 U.S.C. 112.

Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Nasser whose telephone number is (703) 308-3251 or to Angela Sykes, the Supervisory Patent Examiner for Art Unit 3311, at (703) 308-2713.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0858. In addition, the Group Fax number is (703) 305-3590.

RLN 9/d( September 2, 1996

ANGELA D. SYKES SUPERVISORY PATENT EXAMINER GROUP 3300

Angeli D. Ashi,